



INFORMATION DISCLOSURE STATEMENT

Applicant : Steven F. Bolling, et al.
App. No : 10/729,026
Filed : December 5, 2003
For : IMPLANTABLE HEART ASSIST SYSTEM
AND METHOD OF APPLYING SAME
Examiner : Carl H. Layno
Art Unit : 3762

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed for filing in the above-identified application is an Information Disclosure Statement by Applicant (PTO/SB/08 equivalent) listing 109 references to be considered by the Examiner. Also enclosed are 42 foreign patent references and/or non-patent literature as listed on the Information Disclosure Statement.

This Information Disclosure Statement is being filed before the mailing date of a final action and before the mailing of a Notice of Allowance. This Statement is accompanied by the fees set forth in 37 C.F.R. § 1.17(p). The Commissioner is hereby authorized to charge any additional fees which may be required or to credit any overpayment to Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: March 14, 2005

By: Andrew M. Douglas

Andrew M. Douglas
Registration No. 51,212
Attorney of Record
Customer No. 20,995
(949) 760-0404

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Multiple sheets used when necessary)

SHEET 1 OF 5

Application No.	10/729,026
Filing Date	December 5, 2003
First Named Inventor	Steven F. Bolling, et al.
Art Unit	3762
Examiner	Carl H. Layno
Attorney Docket No.	FORFLOW.1CP6C1

U.S. PATENT DOCUMENTS

Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	3,938,530	2/1976	Santomieri	
	2	4,000,739	1/1977	Stevens	
	3	4,134,402	1/16/1979	Mahurkar	
	4	4,385,631	5/31/1983	Uthmann	
	5	4,405,313	9/20/1983	Sisley, et al.	
	6	4,411,655	10/1983	Schreck	
	7	4,447,236	5/08/1984	Quinn	
	8	4,540,402	9/10/1985	Aigner	
	9	4,543,087	9/24/1985	Sommercom, et al.	
	10	4,692,141	9/08/1987	Mahurkar	
	11	4,798,591	1/1989	Okada	
	12	4,857,062	8/1989	Russell	
	13	4,925,452	5/15/1990	Melinyshyn, et al.	
	14	4,944,745	7/31/1990	Sogand, et al.	
	15	4,976,270	12/11/1990	Parl, et al.	
	16	4,985,014	1/1991	Orejola	
	17	4,995,865	2/1991	Gahara, et al.	
	18	5,011,469	4/30/1991	Buckberg, et al.	
	19	5,041,098	8/20/1991	Loiterman, et al.	
	20	5,066,285	11/1991	Lundquist, et al.	
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	22	5,114,408	5/1992	Fleischhaker, et al.	
	23	5,129,883	7/14/1992	Black	
	24	5,211,546	5/18/1993	Issacson, et al.	
	25	5,250,036	10/1993	Farivar	
	26	5,279,551	1/1994	James	
	27	5,318,518	6/7/1994	Plechinger, et al.	
	28	5,336,205	8/1994	Zenzen, et al.	
	29	5,378,230	1/03/1995	Mahurkar	

Examiner Signature

Date Considered

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T¹ - Place a check mark in this area when an English language Translation is attached.

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	30	5,403,291	4/04/1995	Abrahamson	
	31	5,405,329	4,1995	Durand	
	32	5,417,705	5/1995	Haber, et al.	
	33	5,453,084	9/26/1995	Moses	
	34	5,472,417	12/05/1995	Martin, et al.	
	35	5,486,159	1/23/1996	Mahurkar	
	36	5,522,800	6/4/1996	Crocker	
	37	5,533,957	7/9/1996	Aldea	
	38	5,536,250	7/16/1996	Klein, et al.	
	39	5,542,937	8/6/1996	Chee, et al.	
	40	5,554,136	9/10/1996	Luther	
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	42	5,571,093	11/05/1996	Cruz, et al.	
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	44	5,672,158	9/1997	Okada, et al.	
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	49	5,807,311	9/15/1998	Palestrant	
	50	5,868,703	2/09/1999	Bertolero, et al.	
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	58	6,167,765	1/2001	Weitzel	

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	59	6,287,608	9/11/2001	Levin, et al.	
	60	6,371,935	4/16/2002	Macoviak, et al.	
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	62	6,592,567	7/15/2003	Levin et al.	
	63	6,719,749	4/13/2004	Schweikert, et al.	
	64	6,749,598	6/15/2004	Keren, et al.	
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	66	2003/0083617	05/01/2003	St. Germain, et al.	
	67	2003/0187367	10/2/2003	Odland	

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Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind Code Example: JP 1234567 A1	Publication Date MM-DD-YYYY	Country	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T ¹
	68	0 533 432 A1	3/24/1993	EPO		
	69	0 711 574 A1	5/15/1996	EPO		
	70	2,201,908 A1	6/13/1975	France		
	71	91 11 200 U	11/1991	Germany		
	72	JP 08257001 A	10/1996	Japan		
	73	WO 86/01416	03/13/1986	PCT		
	74	WO 96/18358	6/20/1996	PCT		
	75	WO 98/34676	8/13/98	PCT		
	76	WO 99/16498	4/1999	PCT		
	77	WO 99/21605	5/1999	PCT		
	78	WO 99/42156	8/26/1999	PCT		
	79	WO 99/59652	11/25/1999	PCT		
	80	WO 00/76577	12/21/2000	PCT		
	81	WO 02/064204 A1	9/2001	PCT		

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹
	82	Aranki, S. et al. Femoral Veno-Arterial Extracorporeal Life Support With Minimal or No Heparin. Ann Thorac Surg 1993; 56: 149-55	
	83	Birtwell, W. et al. The evolution of counterpulsation techniques. Med Instrum 1976; 10(5): 217-23	
	84	Bonchek, L. et al. Direct Ascending Aortic Insertion of the "Percutaneous" Intraaortic Balloon Catheter in the Open Chest: Advantages and Precautions. Ann Thorac Surg 1981; 32(5): 512-14	
	85	Champsaur, G. et al. Use of the Abiomed BVS System 5000 as a bridge to cardiac transplantation. J Thorac Cardiovasc Surg 1990; 100: 122-8	
	86	Clark, R. E. Progress in the clinical application of the AB-180 circulatory support system. Journal of Circulatory Support (1998) Vol. 1, No. 1, 21-26	
	87	Clark, R. E. et al. Future devices and directions. Progress in Cardiovascular Diseases, 43(1) (July/August), 2000: 95-100	
	88	Clark, R. E. et al. Left Ventricular Support With the Implantable AB-180 Centrifugal Pump in Sheep With Acute Myocardial Infarction. ASAIO 1998; 44(6): 804-11	
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	90	Dembitsky, W. Briding from acute to chronic devices. Ann Thorac Surg 1999; 68: 724-28	
	91	Goldstein, A. H. et al. Development of an Implantable Centrifugal Blood Pump. ASAIO 1992; 38(3): M362-5	
	92	Goldstein, A. H. et al. Predictable Reduction in Left Ventricular Stroke Work and Oxygen Utilization With an Implantable Centrifugal Pump. Ann Thorac Surg 1994; 58 (4): 1018-24	
	93	Griffin, W. P. et al. AB-180 Circulatory Support System: Summary of Development and Phase I Clinical Trial. ASAIO 1998; 44(5): M719-24	
	94	Jaski, B. et al. Anterograde Perfusion in Acute Limb Ischemia Secondary to Vascular Occlusive Cardiopulmonary Support. Cath and Cardiovasc Diag 1995; 35: 373-76	
	95	Konertz, W. et al. Clinical Experience With the MEDOS HIA-VAD System in Infants and Children: A Preliminary Report. Ann Thorac Surg 1997; 63: 1138-44	
	96	Magovern, G. Nonpulsatile Circulatory Support: Techniques of Insertion. Ann Thorac Surg 1993; 55: 266-72	
	97	Magovern, J. A. et al. Clinical results with the AB-180 left ventricular assist device. Ann Thorac Surg 2001; 71: S121-24	
	98	Martin, J. et al. MEDOS HIA-VAD Biventricular Assist Device for Bridge to Recovery in Fulminant Myocarditis. Ann Thorac Surg 1997; 1145-46	
	99	Nishimura et al. The enabler cannula pump: a novel circulatory support system. The International Journal of Artificial Organs, Vol. 22, No. 5, 1999, pp. 317-323	
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	101	Pacella, J. J. et al. Modified Fabrication Techniques Lead to Improved Centrifugal Blood Pump Performance. ASAIO 1994; 40: M767-72	
	102	Reddy, R. C. et al. End Organ Function With Prolonged Nonpulsatile Circulatory Support. ASAIO 1995; 41: M547-51	
	103	Reedy, J. et al. Mechanical cardiopulmonary support for refractory cardiogenic shock. Heart & Lung 1990; 19(5): 514-23	
	104	Savage, E. B. et al. The AB-180 Circulatory Support System: Summary of Development and Plans for Phase I Clinical Trial. Ann Thorac Surg 1999; 68: 768-74	
	105	Sharony et al. Cardiopulmonary Support and Physiology- The Intra-Aortic Cannula Pump: A Novel Assist Device for the Acutely Failing Heart. The Journal of Thoracic and Cardiovascular Surgery, Nov. 1992, Vol. 118, No. 5, pp. 924-929	
	106	Sharony, R. et al. Right heart support during off-pump coronary artery surgery—a multi-center study. Heart Surg Forum. 2002;5(1):13-6.	
	107	Takagaki et al. A Novel Miniature Ventricular Assist Device for Hemodynamic Support. ASAIO Journal 2001, pp. 412-416	
	108	Wenger, R., et al. Flow dynamics of peripheral venous catheters during extracorporeal membrane oxygenation with a centrifugal pump. J Thora Cardiovasc Surg 1988; 96:478-84	
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